

~~SECRET~~

GUS-0170

Copy 1 of 3

10 March 1959

MEMORANDUM FOR : Eugene Kiefer

SUBJECT : Contract No. HL-4646, Convair, Fort Worth,
Statement of Work, Project GUSTO

1. Attached is the proposed statement of work for ~~Definitizing~~
the subject contract. This was handcarried to Project Headquarters
on 9 March by [] of Convair.

2. Request that the attachment be reviewed by your office and
your approval and/or comments be given regarding the use of this
proposal for definitizing the subject contract.

[]
Contracting Officer

DPD-DD []:arp
Distr.

Orig. - E. Kiefer
2. HL-4646 Prop. Sec
3. - Chrono

~~SECRET~~

STATEMENT OF WORK

GENERAL

Contractor will conduct a four and one-half month design study to establish a configuration compatible with the performance requirements of Letter CHAM-0085. The work will include:

I. Analysis and Design - This design study will embrace technical analyses, design layouts and tests directed to solutions of electronics effects, L/D, ram recovery and structural design. Coordination with the engine contractor will be carried out.

II. Models and components - Design, construction and tests of models and components in accordance with Schedule PFY-204-0 will be carried out to provide wind tunnel data, structural and electronic data.

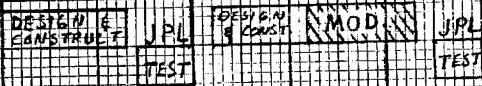
III. Manufacturing Research - Preliminary exploration of manufacturing and processing techniques will be accomplished to study feasibility of structural design.

IV. Subsystems - Studies, preliminary layouts and analyses of the required subsystems will be carried out including surveys of the state of the art and existing systems developments. This work will serve as a preliminary to selection of possible vendors for the required subsystems.

MODEL AND COMPONENT SCHEDULE 4 1/2 MONTH PROGRAM

WIND TUNNEL PROGRAM

• INLET RESEARCH MODEL



• FORCE MODEL



• INLET DEVEL. MODEL

DESIGN

STRUCT. & MAT. PROGRAM

- I STRUCT. MAT
- II NON-STRUCT. MAT
- III PROCESS METHODS
- IV STRUCT. COMP. ALLOW.
- V WING BOX HEAT.
- VI LEADING EDGES

DESIGN, TEST, SELECT MATERIALS

RADAR MODEL PROGRAM

• FULL-SCALE COMPLETE MODEL



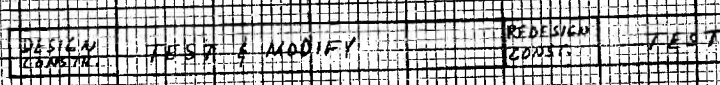
• FULL-SCALE INLET MODEL



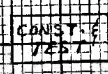
• FULL-SCALE ENGINE TAILPIPE MODEL



• 1/8 SCALE COMPLETE MODEL



• 1/4 SCALE COMPLETE MODEL



LEGEND:

INDICATES ADDED TASKS TO BE COVERED BY TCR

3/7/59

STATEMENT OF WORK

GENERAL

Contractor will conduct a four and one-half month design study to establish a configuration compatible with the performance requirements of Letter CHAM-0085. The work will include:

I. Analysis and Design - This design study will embrace technical analyses, design layouts and tests directed to solutions of electronics effects, L/D, ram recovery and structural design. Coordination with the engine contractor will be carried out.

II. Models and components - Design, construction and tests of models and components in accordance with Schedule PFY-204-0 will be carried out to provide wind tunnel data, structural and electronic data.

III. Manufacturing Research - Preliminary exploration of manufacturing and processing techniques will be accomplished to study feasibility of structural design.

IV. Subsystems - Studies, preliminary layouts and analyses of the required subsystems will be carried out including surveys of the state of the art and existing systems developments. This work will serve as a preliminary to selection of possible vendors for the required subsystems.

MODEL AND COMPONENT SCHEDULE4 1/2 MONTH PROGRAMWIND TUNNEL PROGRAM

- INLET RESEARCH MODEL

DESIGN & CONSTRUCT

JPL

TEST

DESIGN & CONSTRUCT

MOD

JPL

TEST

- FORCE MODEL

DESIGN & CONSTRUCT

LRC

TEST

CWT

TEST

- INLET DEVEL. MODEL

DESIGN

STRUCT. & MAT. PROGRAM

I STRUCT. MAT

II NON-STRUCT. MAT

III PROCESS METHODS

IV STRUCT. COMP. ALLOW.

V WING BOX HEAT.

VI LEADING EDGES

DESIGN, TEST, SELECT MATERIALS

RADAR MODEL PROGRAM

- FULL-SCALE COMPLETE MODEL

CONSTRUCT

TEST & MODIFY

REDESIGN & MODIFY

TEST

MODIFY

TEST

- FULL-SCALE INLET MODEL

TEST

DESIGN & CONSTRUCT

TEST

REDESIGN & MODIFY

TEST

MODIFY

TEST

- FULL-SCALE ENGINE TAIL PIPE MODEL

DESIGN & CONSTRUCT

TEST & MOD

REDESIGN & CONSTRUCT

TEST

MOD

TEST

- 1/8 SCALE COMPLETE MODEL

DESIGN & CONSTRUCT

TEST & MODIFY

REDESIGN & CONSTRUCT

TEST

- 1/46 SCALE COMPLETE MODEL

CONST. & TEST

LEGEND:



INDICATES ADDED TASKS
TO BE COVERED BY T.C.R.

3/7/59

ILLEGIB

Approved For Release 2002/10/16 : CIA-RDP64B00187A000700170059-1

Next 2 Page(s) In Document Exempt

Approved For Release 2002/10/16 : CIA-RDP64B00187A000700170059-1